

# **LIFT TEK**

**Engineering for Sustainability**



**LIFTTEK services its costumers with more than ten years of experience. LIFT TEK, which pursues a sustainable solution partnership philosophy with its costumers, is spreading its name locally and globally day by day.**

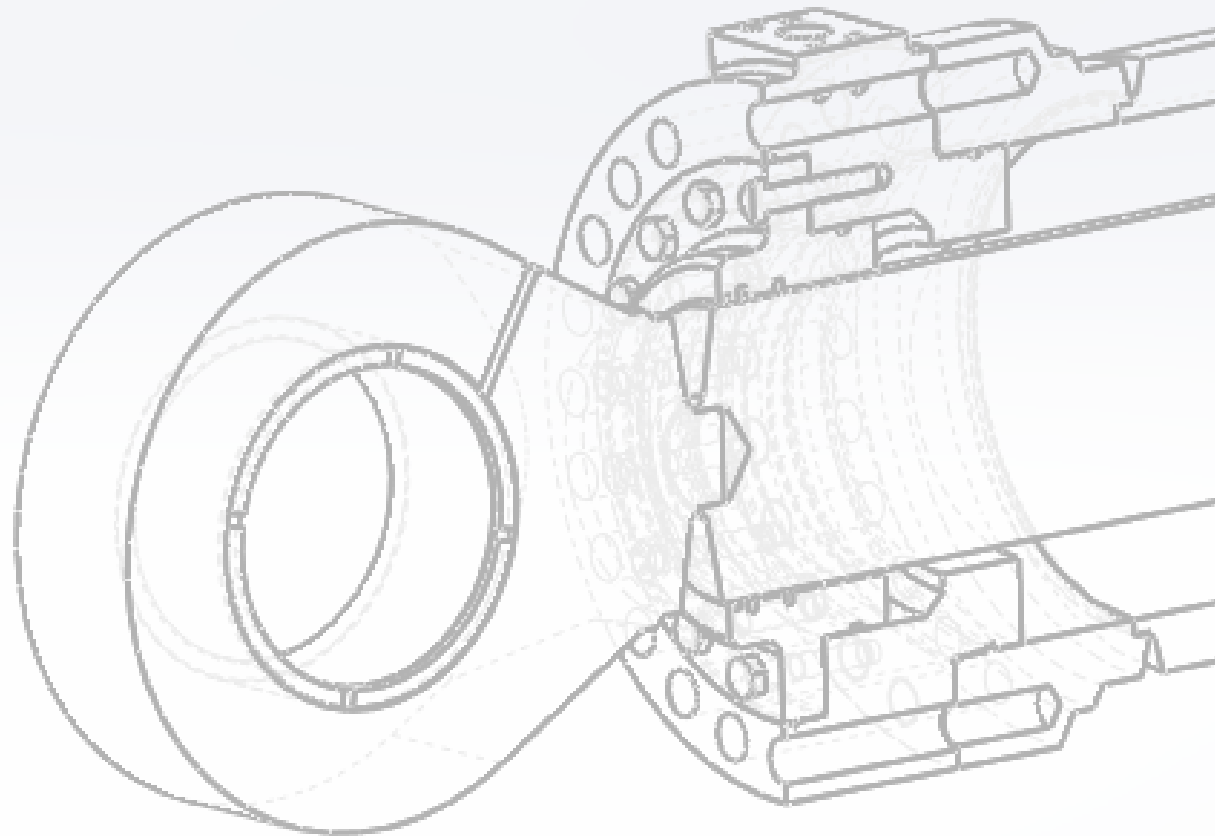
## **Advantages**

**Engineering**

**Quality**

**Customized  
Production**

**Manufacturing  
and  
Maintenance**



# Engineering

In line with the interviews with our costumers, the design experts take all the necessary data and make the most appropriate and accurate design. While designing, current solid modeling programs are used.

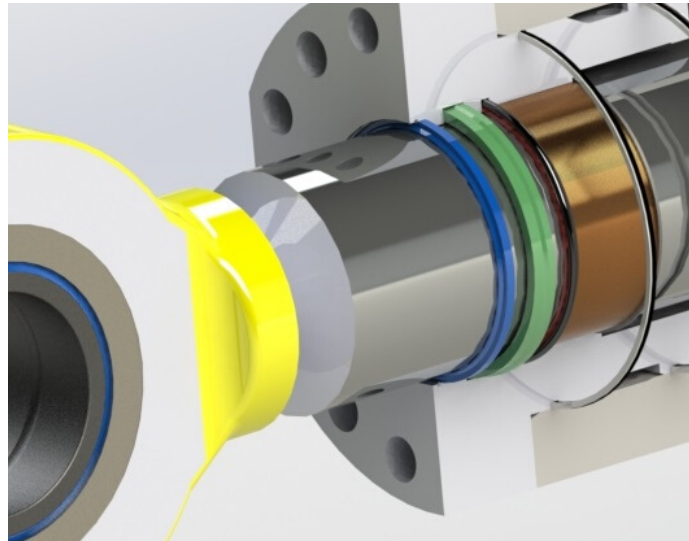
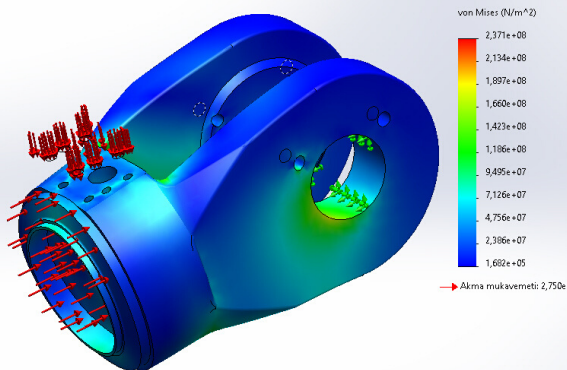
## Software for Design and Analysis

For the hydraulic cylinder manufacturing to be done correctly, it is necessary to model beforehand, the metarial selection of the under-parts and necessary strenght analysis. LIFT TEK engineers have advanced experience on this subject.

## Sealing Design and Coating

The most effective elements in the efficient and long-lasting operation of hydraulic cylinders are sealing and guidening elements. The selection and correct positioning of these elements are important and necessary. Otherwise the hydraulic cylinder cannot produce the required power and provide the expected life. The most important factor that directly affects the product of the sealing and guidening elements are roughness value on the contact surface. The inside of the barrel must be precisely honed or rolled-burnished. On the other hand, the rod surface should be hard chrome or chrome-nickel plated. LIFT TEK determines/provides its efficiency and life studies with an accurate design.

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# Customized Production

**LIFT TEK can produce hydraulic cylinders for mining equipment up to 800 tons with state-of-the-art manufacturing methods. These products are followed up with a manufacturing range that turns vertically (from 10 tons to 800 tons). Each material forming the hydraulic cylinder is produced in its own processing centers and with its own, manufacturing techniques. These are followed by precise painting and testing steps.**

## Innovative Products

**All innovative ideas required for hydraulic cylinder production and process management are at the top of the list of high quality products by LIFT TEK. LIFT TEK offers its customers many alternative ways of producing hydraulic cylinders. These draw attention as fast and sustainable solutions.**

## LIFT TEK Solutions

**The production of hydraulic cylinders has the same characteristics as the original equipment manufacturers and all parts changeable with the original productions. In addition, the products with the same working features, but the inner of cylinder design by us and whose efficiency has been significantly increased, are produced by us instead of a classic aftermarket product.**



# Manufacturing and Maintenance

The rebuild process is started for hydraulic cylinders that are in defective state. First of all, the defective parts are identified and a detailed plan is made for the method to fix the defect. Then, while the parts that require remanufacturing are rebuilt, other parts that are modified are included and the cylinder is returned to its former condition. This is a method where the customer will save time and cost.

## Welding Process

The parts on the barrel and the rod of the hydraulic cylinder are welded together. The materials used here are selected according to their weldability capabilities and are combined with each other in automatic welding robots.

## Production

Parts that cannot be revised are manufactured and adapted to the hydraulic cylinder in the same way. The manufacturing process covers all the under-parts of the hydraulic cylinder such as barrel, rod, piston, gland etc.

## Surface Finishing

Hydraulic cylinder barrel inner surfaces are turned into a sensitive surface by honing or roller-burnishing process according to its diameter.

This process is of high importance for the life and efficiency of the hydraulic cylinder. If chrome/nickel coating on the rod is damaged, it can be reinstated by plating chrome/nickel again.

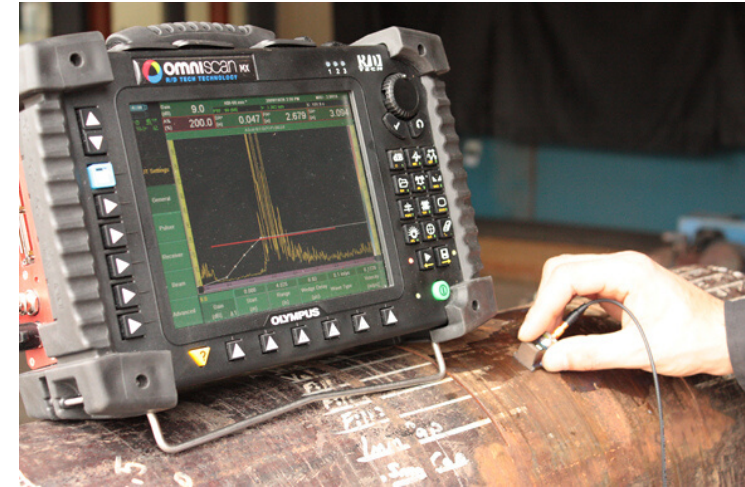
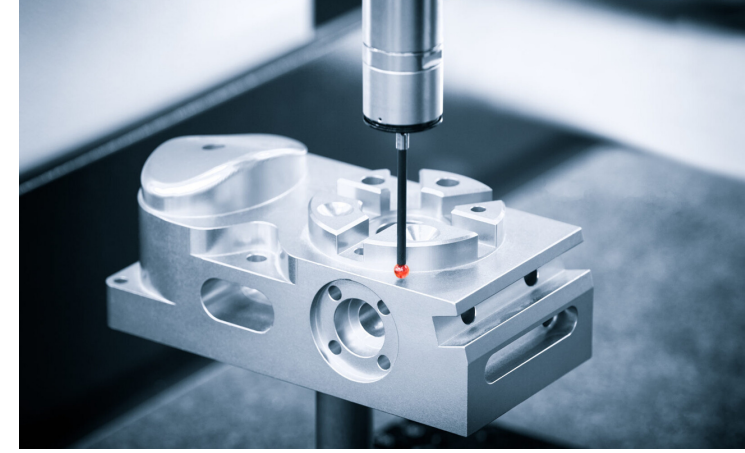


# Quality

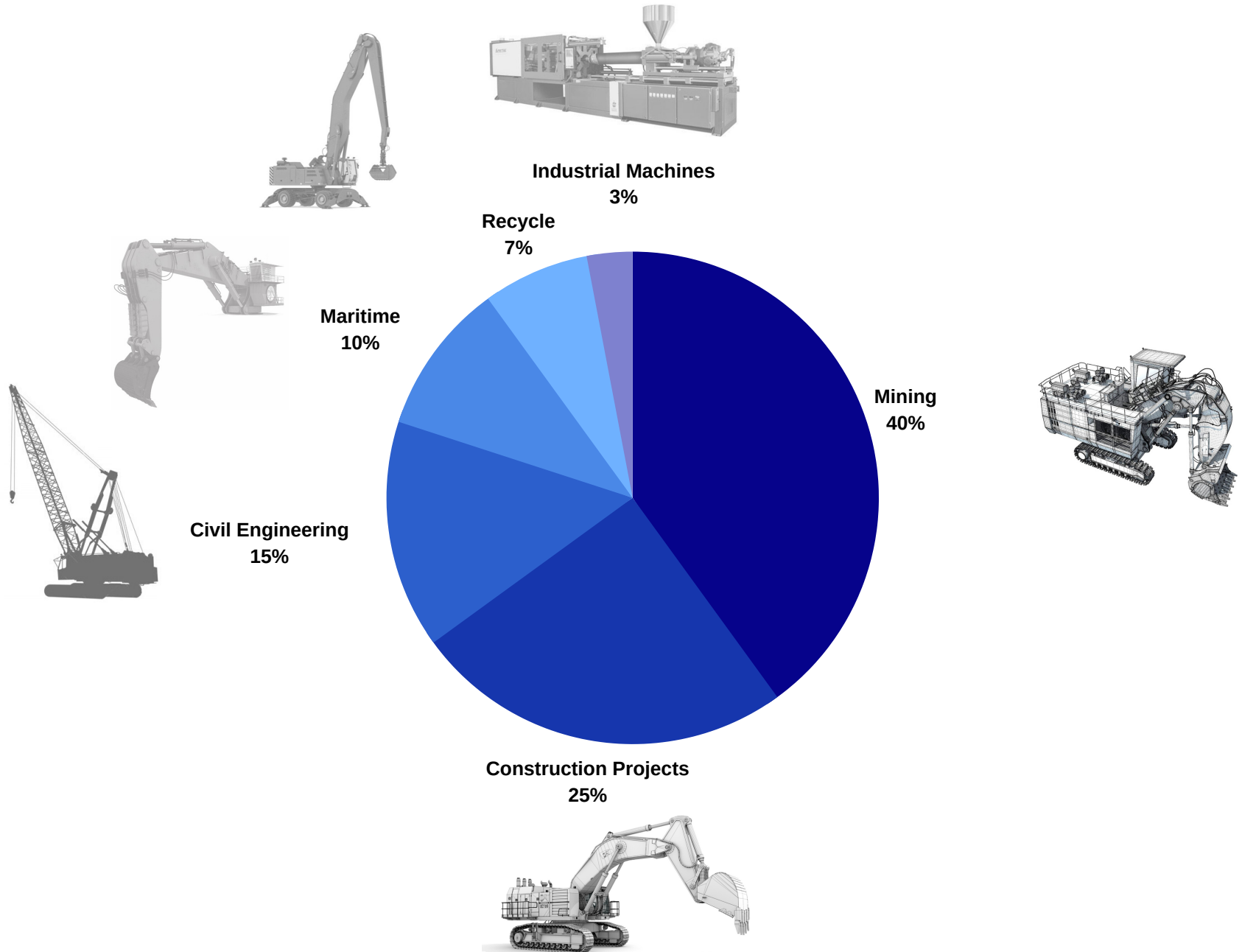
The good quality of a product depends on the correct progress of the quality and control processes. If a high quality product is desired, quality and control processes should be initiated at the development stage. Given these conditions, LIFT TEK successfully manages the quality and control process of the products throughout their life cycle.

## Supplier Managament

As LIFT TEK pays attention to the quality of its productions, it also manages supplier control carefully. The base of a quality hydraulic cylinders are the lower parts manufactured to high standards. For this reason, the production process is carried out in the shortest possible delivery times by directing the quality process through the relationships and negotiations with the suppliers.



# Product Range





# Mining

## Heavy Duty

Mining equipment cylinders, which have the biggest share of hydraulic cylinder production range, are the most demanding cylinders statically and dynamically.

Therefore, the LIFT TEK engineering team works very carefully on these cylinders. Design made with decades of experience and knowledge, together with the materials selection in this direction, come out with durable and efficient hydraulic cylinders.

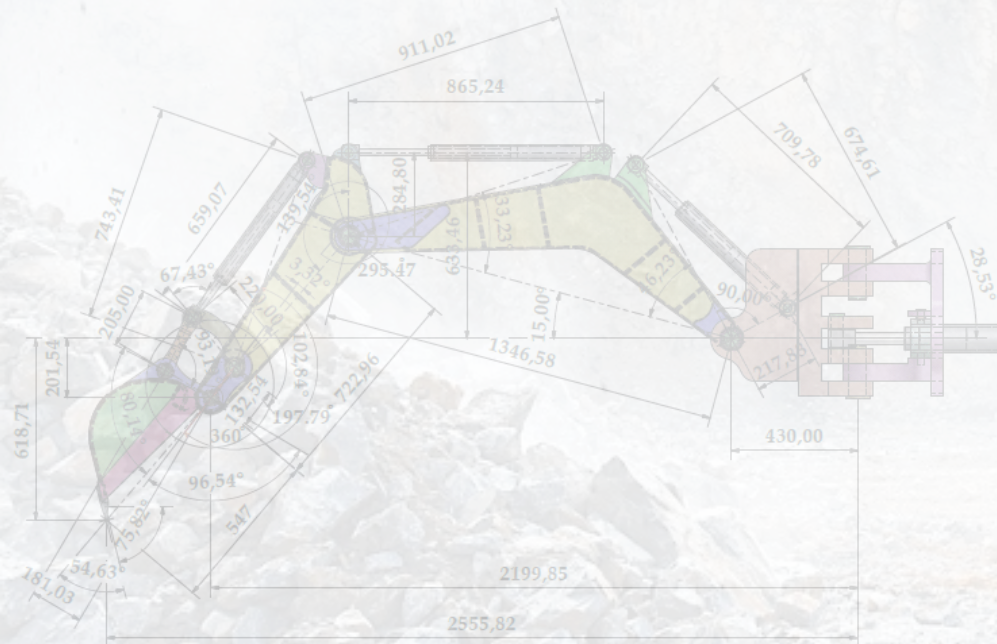
## Innovative Production

LIFT TEK offers cylinders with improvements as well as original equipment manufacturer standards when manufacturing hydraulic cylinders.

Studies, such as weight reduction, design of sealing and guiding elements are among these.

## Product Life Cycle

The cylinders produced are designed to operate are million strokes.





# Construction Projects and Civil Engineering

## Duability and Safety

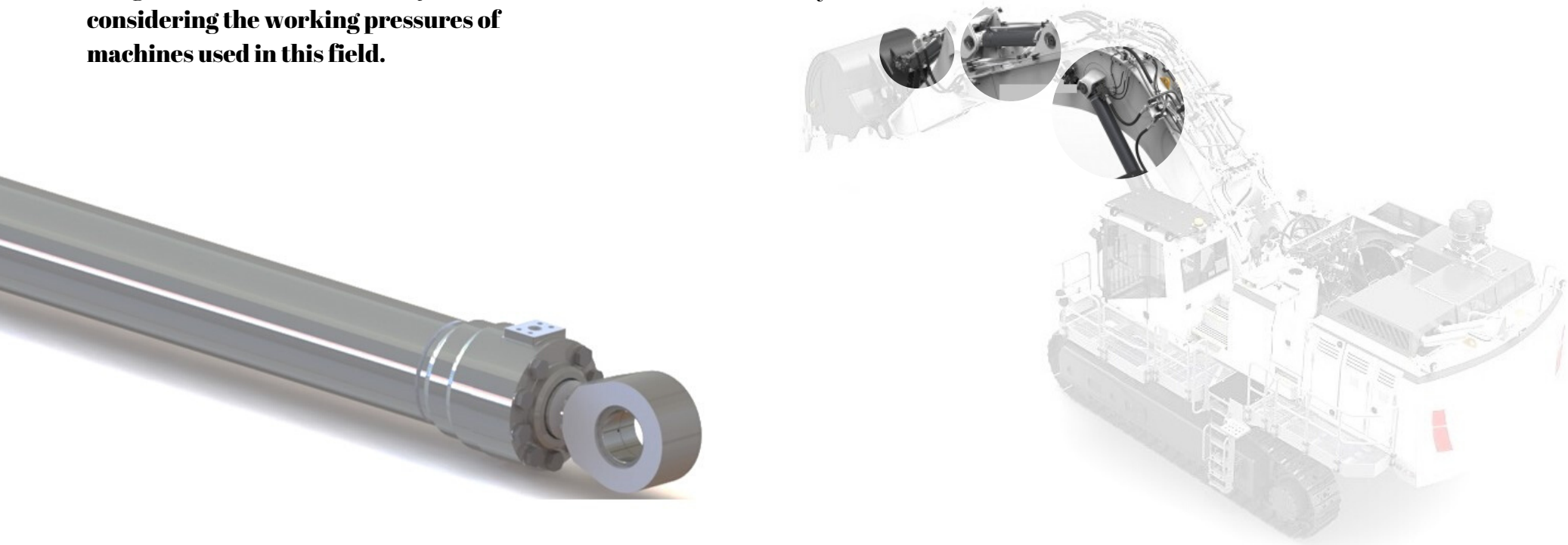
They are the hydraulic cylinders that provide mobility from the days when the construction machines are produced. Therefore, it is an important issue that these elements are durable and safe. LIFT TEK engineers design and produce the most efficient and correct product for their customers using their experience in this field. Cylinders are designed and manufactured by considering the working pressures of machines used in this field.

## Sealing System

LIFT TEK designs their system with the most suitable elements, considering the conditions that it will operate when designing hydraulic cylinder. According to many environmental conditions such as tandem design, heavy duty design, high speed design, sealing design is made in a way that requires minimum maintenance with maximum efficiency.

## Optional Features

Cushioning mechanisms can be monitored as an additional feature in the internal design of hydraulic cylinders. Cushioning is determined according to the way the cylinder.



# Maritime and Recycling Applications



## Customer Specific Solutions

Special solutions are sought for challenging projects in the shipping and recycling industry. LIFT TEK offers reliable solutions for its customers with its experience in the maritime sector brings us to the fore in producing products of remarkable quality.

## Extra Corrosion Resistance

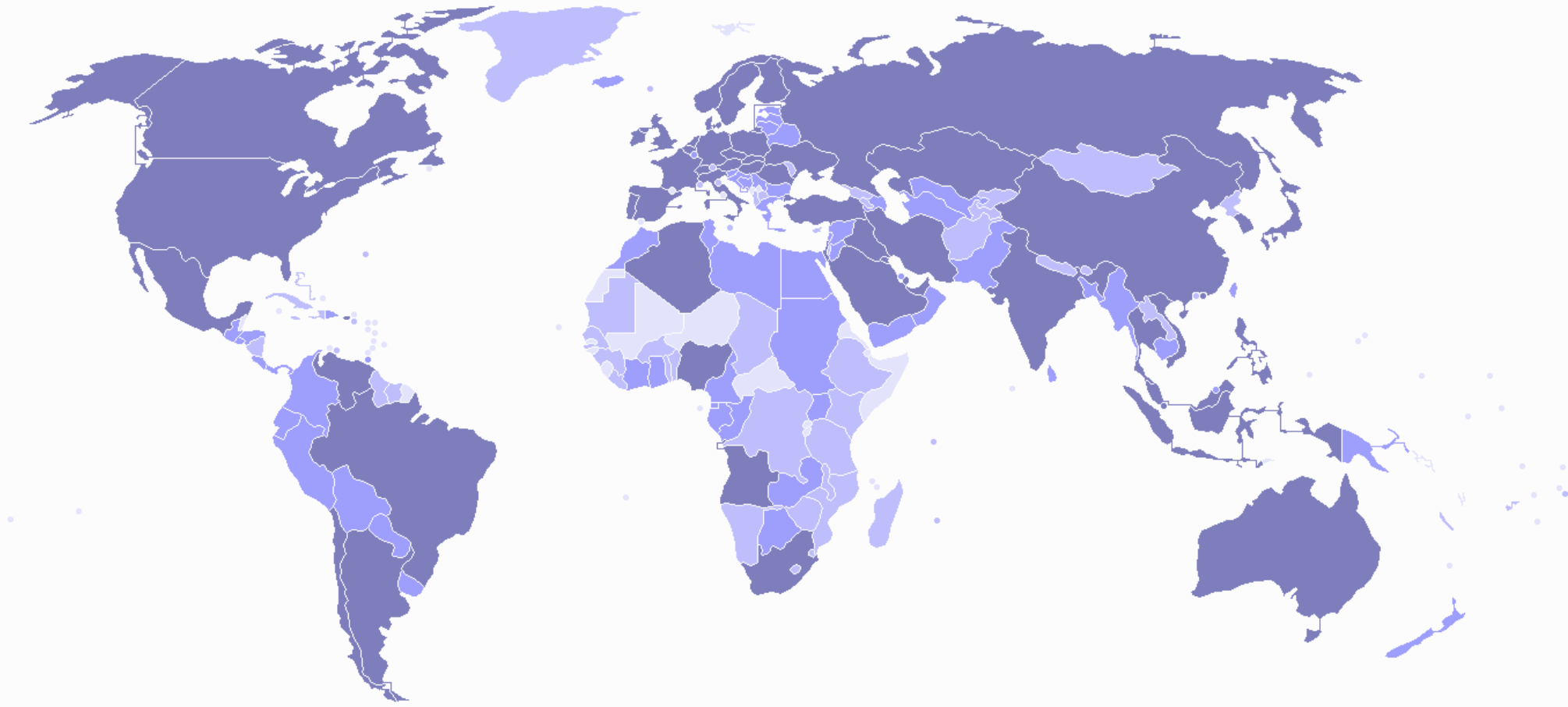
The most common problem faced by the maritime and recycling sectors is corrosion and material deformation. Special precautions are taken against damages that may occur in this regard. With both chrome plating and chrome/nickel mixture plating, hydraulic cylinder rod surface coating with maximum corrosion resistance is applied.

## Special Surface Paints

In order to prevent the other surface of the hydraulic cylinder from being rusted, external surfaces are painted and protected from corrosive effects by using customized paints.







<b>Germany</b>	<b>Kazakhstan</b>	<b>India</b>
<b>Belgium</b>	<b>Colombia</b>	<b>Portugal</b>
<b>Indonesia</b>	<b>Mongolia</b>	<b>Spain</b>
<b>Finland</b>	<b>Russia</b>	<b>Zambia</b>
<b>Netherlands</b>	<b>Tanzania</b>	<b>Argentina</b>
<b>Israel</b>	<b>Ukraine</b>	<b>Chile</b>
<b>France</b>	<b>England</b>	<b>Mexico</b>

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